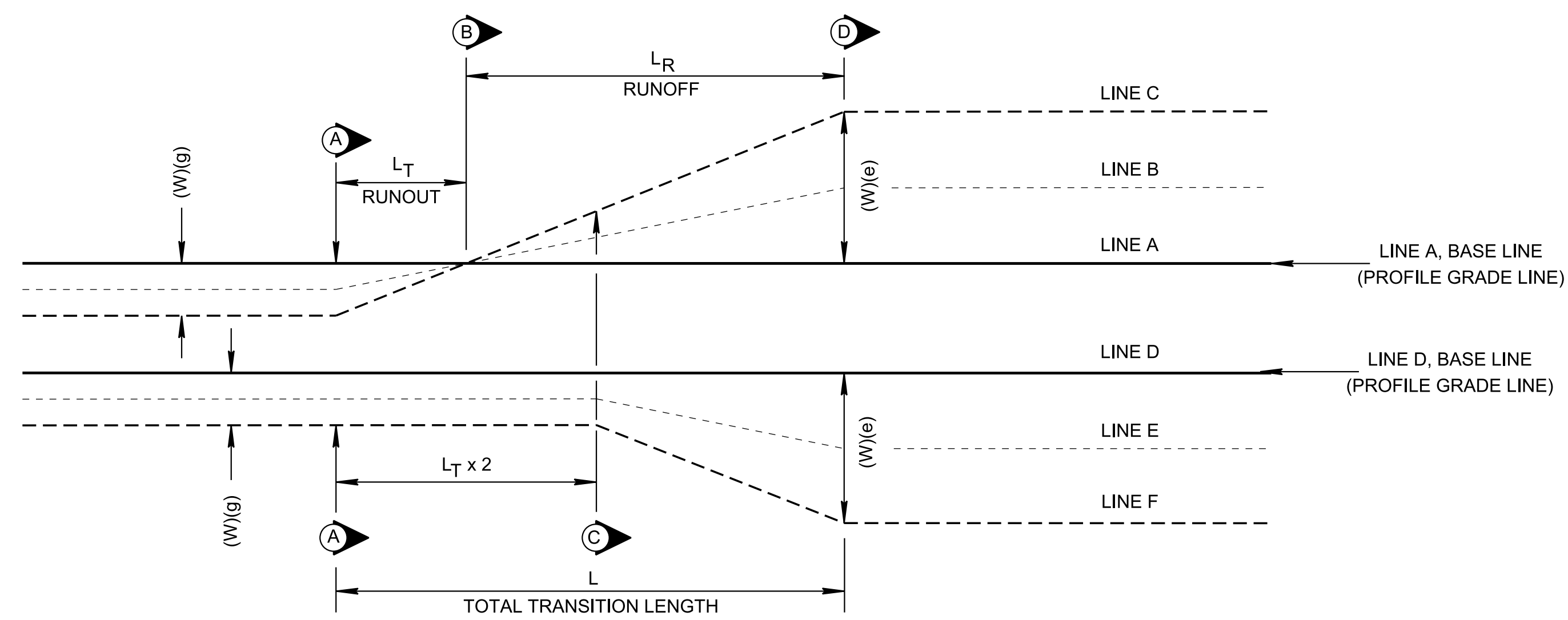
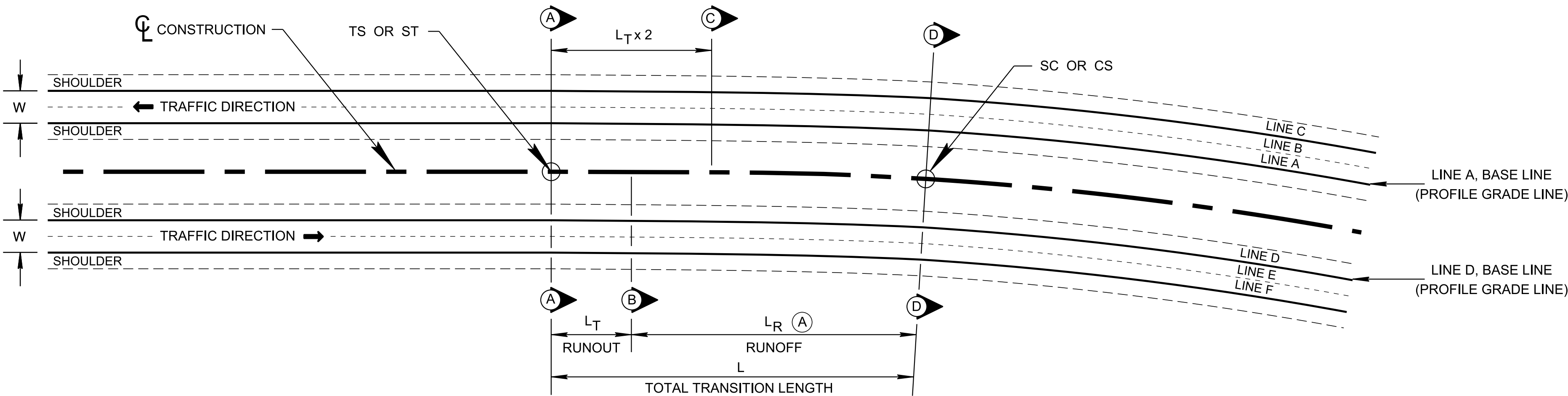


TRANSITION DETAILS - TANGENT TO CURVE



DIAGRAMMATIC PROFILES OF THE PAVEMENT EDGE LINES
SEE STANDARD DRAWING RD11-SE-3A FOR ADDITIONAL DETAILS



TRANSITION DETAILS - SPIRAL CURVE

LEGEND

- PC = POINT OF CURVATURE
- PT = POINT OF TANGENCY
- TS = TANGENT TO SPIRAL
- ST = SPIRAL TO TANGENT
- SC = SPIRAL TO CURVE
- CS = CURVE TO SPIRAL
- ⊙ = SECTION VIEW (SEE RD11-SE-3A)
- L = TOTAL TRANSITION LENGTH = DISTANCE REQUIRED TO TRANSITION FROM NORMAL CROWN (2%) TO FULL SUPERELEVATION (e). INCLUDES SUPERELEVATION RUNOFF (L_R) AND TANGENT RUNOUT (L_T) LENGTH.
- $\frac{1}{2} L$ = 50% OF TOTAL TRANSITION LENGTH (L)
- W = LANE WIDTH (1 LANE) (TABLES ASSUME 12FT LANES)
- g = NORMAL CROSS SLOPE (0.02 FT/FT)
- L_R = DISTANCE TO CHANGE CROSS SLOPE FROM 0% TO e
- e = SUPERELEVATION RATE (FT/FT)
- L_T = DISTANCE TO CHANGE CROSS SLOPE FROM -2% TO 0%
- S = NORMAL SHOULDER SLOPE

DESIGN NOTES

- (A) SPIRAL CURVE LENGTH COINCIDES WITH TOTAL TRANSITION LENGTH.
- (B) $\frac{1}{2}$ OF TOTAL TRANSITION LENGTH UNLESS SHOWN OTHERWISE ON PLANS.

GENERAL NOTES

- 1 REFER TO SPECIFIC CURVE DATA CONTAINED IN PROJECT PLANS FOR TOTAL TRANSITION LENGTH (L) AND FULL SUPERELEVATION (e).
- 2 WHEN SPIRAL CURVES ARE REQUIRED, THE TOTAL TRANSITION LENGTH (L) WILL BE PLACED WITHIN THE SPIRAL. WHEN SPIRAL CURVE TRANSITIONS ARE NOT REQUIRED, 50% OF THE TOTAL TRANSITION LENGTH TO BE PLACED EQUALLY ON EITHER SIDE OF THE PC AND PT UNLESS OTHERWISE SHOWN ON THE PLANS.
- 3 UNLESS OTHERWISE SPECIFIED, ALL LENGTHS ARE MEASURED ALONG THE CENTERLINE OF CONSTRUCTION.
- 4 SUPERELEVATION ON THIS STANDARD ARE SHOWN FOR CURVES TO THE RIGHT. CURVES TO THE LEFT ARE MIRROR IMAGE OF WHAT IS SHOWN.
- 5 AXIS OF ROTATION COINCIDES WITH PROFILE GRADE LOCATION.
- 6 THIS DRAWING IS TO BE USED IN CONJUNCTION WITH STANDARD DRAWING RD11-SE-3A AND RD11-LR SERIES.
- 7 USE FORMULAS ON STANDARD DRAWING RD11-SE-1 TO DETERMINE TOTAL TRANSITION LENGTH (L).